

WE CLAIM:

1. A system for assessing transmurality of an ablation in a tissue comprising:
  - an ablation apparatus operatively adapted to ablate a first side of the tissue;
  - a temperature-sensing pad operatively adapted to sense temperature along a second side of the tissue; and
  - an output device in communication with the pad, the output device operatively adapted to indicate the temperature of the tissue.
2. The system of claim 1 wherein the pad comprises temperature-sensing elements incorporated therein.
3. The system of claim 1 wherein the temperature of the tissue indicated by the output device corresponds to transmurality of the lesion.
4. The system of claim 2 wherein the temperature-sensing elements are arranged in a grid pattern.
5. The system of claim 4 wherein the output device displays a representation of the grid pattern.
6. The system of claim 1 wherein the output device includes a processor for processing a signal received from the temperature-sensing pad.
7. The system of claim 1 wherein the output device includes an amplifier for amplifying a signal received from the temperature-sensing pad.

8. The system of claim 2 wherein the temperature-sensing elements are thermocouples.

9. The system of claim 2 wherein the temperature-sensing elements are thermisters.

10. The system of claim 2 wherein the temperature-sensing elements are temperature-sensing liquid crystals.

11. The system of claim 2 wherein the temperature-sensing elements are temperature-sensing chemicals.

12. The system of claim 2 wherein the temperature-sensing elements are operatively adapted to be located within the tissue.

13. The system of claim 1 wherein the pad is mounted on a glove.

14. The system of claim 1 wherein the pad is formed as a portion of a glove.

15. The system of claim 1 wherein the pad is operatively adapted to be fitted over a finger.

16. The system of claim 1 wherein the pad further comprises a conductive element incorporated therein.

17. The system of claim 1 wherein the output device comprises a visual display on a monitor.

18. The system of claim 1 wherein the output device comprises a visual display on the pad.